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NPIC/R-926/64
November 1964

DECLASS REVIEW BY NIMA / DoD

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PHOTOGRAPHIC INTERPRETATION REPORT

INTRODUCTION TO THE SURFACE-TO-AIR MISSILE (SAM) INSTALLATION SERIES



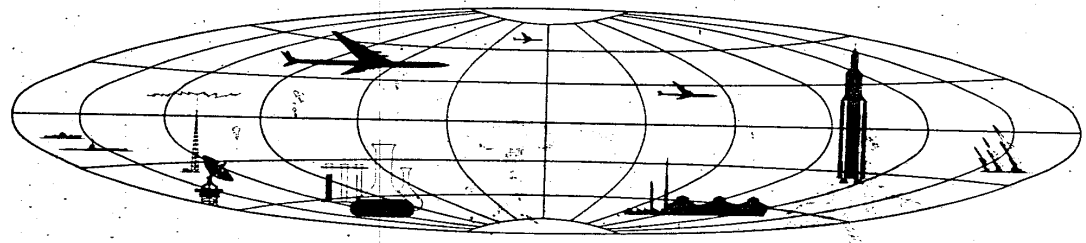
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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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INTRODUCTION TO THE SURFACE-TO-AIR MISSILE (SAM) INSTALLATION SERIES

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This report introduces an NPIC series on newly identified Soviet-type surface-to-air missile (SAM) installations. The series will consist of short but detailed individual reports using a standard format and will cover each SAM installation newly identified on [] and following missions. Each report, although based on the photographic coverage by which the installation is identified, will include any information from previous coverage (including [] or other photography) necessary for a full and adequate description. For example, an SA-2 site may be partly obscured by clouds on the referenced mission, making it impossible to identify all six launch positions, but if earlier photography shows them, the report will state that there are six positions.

To reduce the repetitive effort involved in checking previous photographic coverage, the detailed review of the old photography will be itemized, mission by mission, and machine stored. For each coverage of the location, at which a SAM installation is found, a detailed readout will be machine stored, ultimately making possible the retrieval of pertinent information without rescanning all the film.

All SAM installations will be covered in this series, including: SA-1, SA-2, SA-3, and SA-0 SAM sites; SAM R & D and training sites; SAM support facilities; regional SAM facilities; possible SAM sites; and unidentified installations suspected of being SAM associated. For ease of reference, graphical portrayals of various type

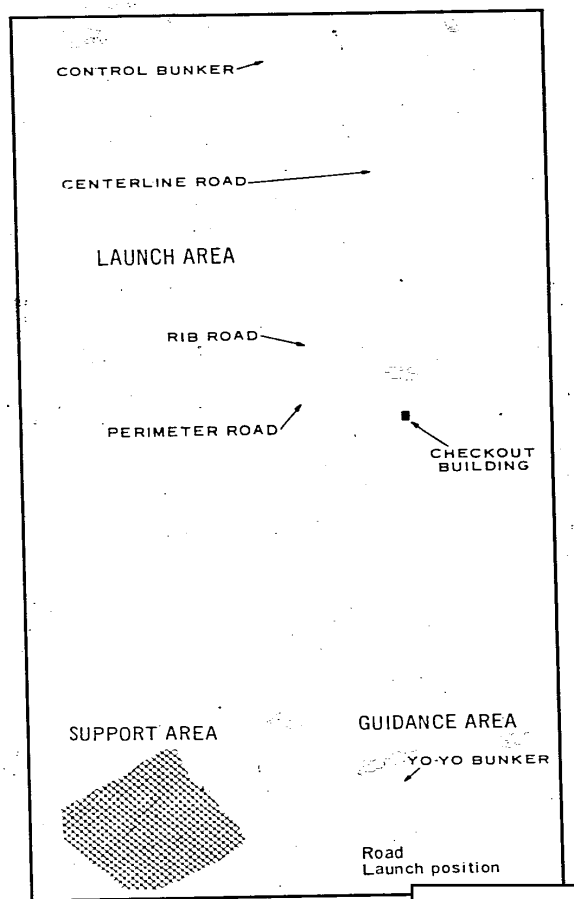


FIGURE 1. TYPICAL SA-1 SAM SITE.

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Each report will include basic data on the installation, set in boxes at the top; a brief but comprehensive photographic interpretation of the installation; and a photograph from the identifying mission. Notes on the items included in the basic-data boxes follow.

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Installation Name. Installations will be carried by Target Data Inventory (TDI) or Bombing Encyclopedia (BE) names unless these conflict with NPIC usage. For example, NPIC has had numerous reports calling certain large installations "centers" and designating subdivisions of these centers as complexes, and NPIC will continue to use this nomenclature.

Geographic Coordinates. Coordinates will be given in degrees, minutes, and seconds as plotted by NPIC on the referenced map or chart, usually the Series 200 US Air Target Chart.

NPIC Target Number and BE Number. Each of these is unique to the installation and consists of the WAC number plus identifying digits.

Photography. This box contains full photographic references for the coverage on which the installation was identified. These include mission number, date of pass, pass number, camera designation (where applicable), frame number, index number, Universal Grid No 1 coordinates, weather, limiting conditions (if any), and classification.

Negation Date. The negation date is the date of the most recent photography on which there is no evidence of the target--significant because it indicates that construction of the target must have begun after that date. When a negation date can be established, a complete set of photographic references is given. When the installation cannot be negated on available photography, the words "Cannot be negated" will appear in this box.

First Observed. This is the photography on which the first evidence of the installation can be seen. Although a facility may have been identified only after it had reached an advanced stage of construction, a review of earlier coverage may indicate that construction had been underway earlier. The earliest date on which there was evidence of construction is the date the facility was first observed. The box includes both the date and the mission number.

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FIGURE 4. TYPICAL SA-0 SAM SITE CONFIGURATIONS.

NPIC J-5026 (11/64)

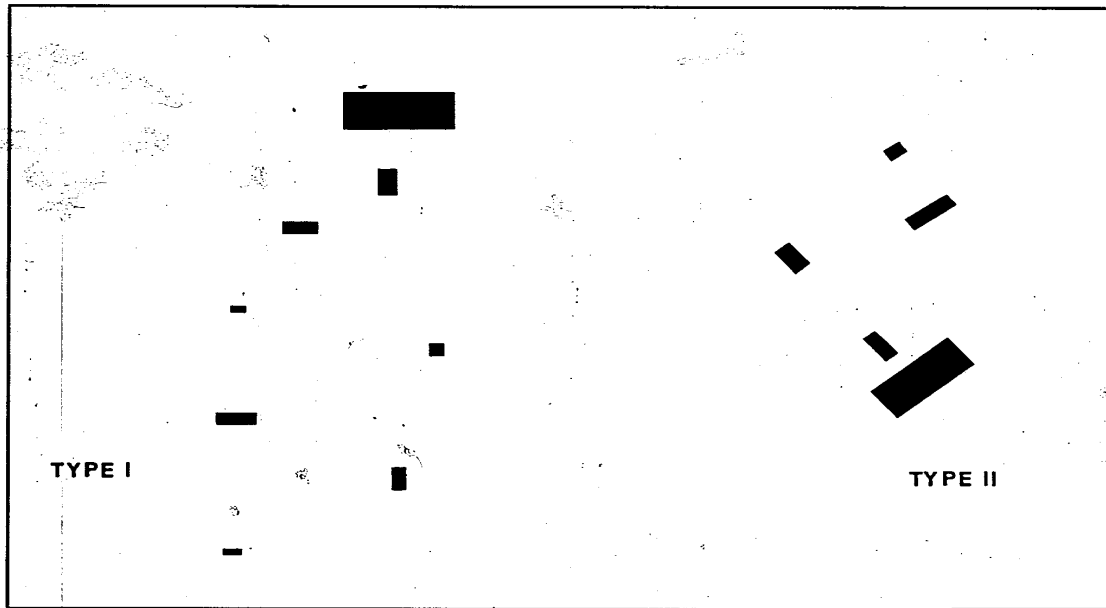


FIGURE 5. TYPICAL SAM SUPPORT FACILITIES.

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References. This box contains data on the map or chart used for plotting the location of the installation, a citation of this introductory re-

port, and the requester's requirement number.

In addition to the items covered in the boxes at the head of the report form, as much descriptive information as possible will be given about the installation: its distance and direction from the town it is named for; its configuration and, in the case of SA-3 SAM sites, orientation; and its status. All measurements must be considered approximate.

Launch sites will be considered by facilities within their different areas, that is: Launch Facilities -- the number of positions, whether revetted or unrevetted, the number that are occupied, the number that are snow covered or have been snow cleared, and other pertinent information; Electronic Facilities -- description of the guidance area, listing of any equipment in it, listing of any associated radar with its location; and Site Support Facilities -- the number of buildings and approximate distance in feet from the center of the launch area, the number and status of missile-hold positions, and other related information.

SAM support facilities will be listed by configuration, status, and the structures that compose them. Missiles or Missile Components, as well as Vehicles and Equipment will be listed.

Security Measures will be described for any SAM-associated installation, and Unusual Features will be described.

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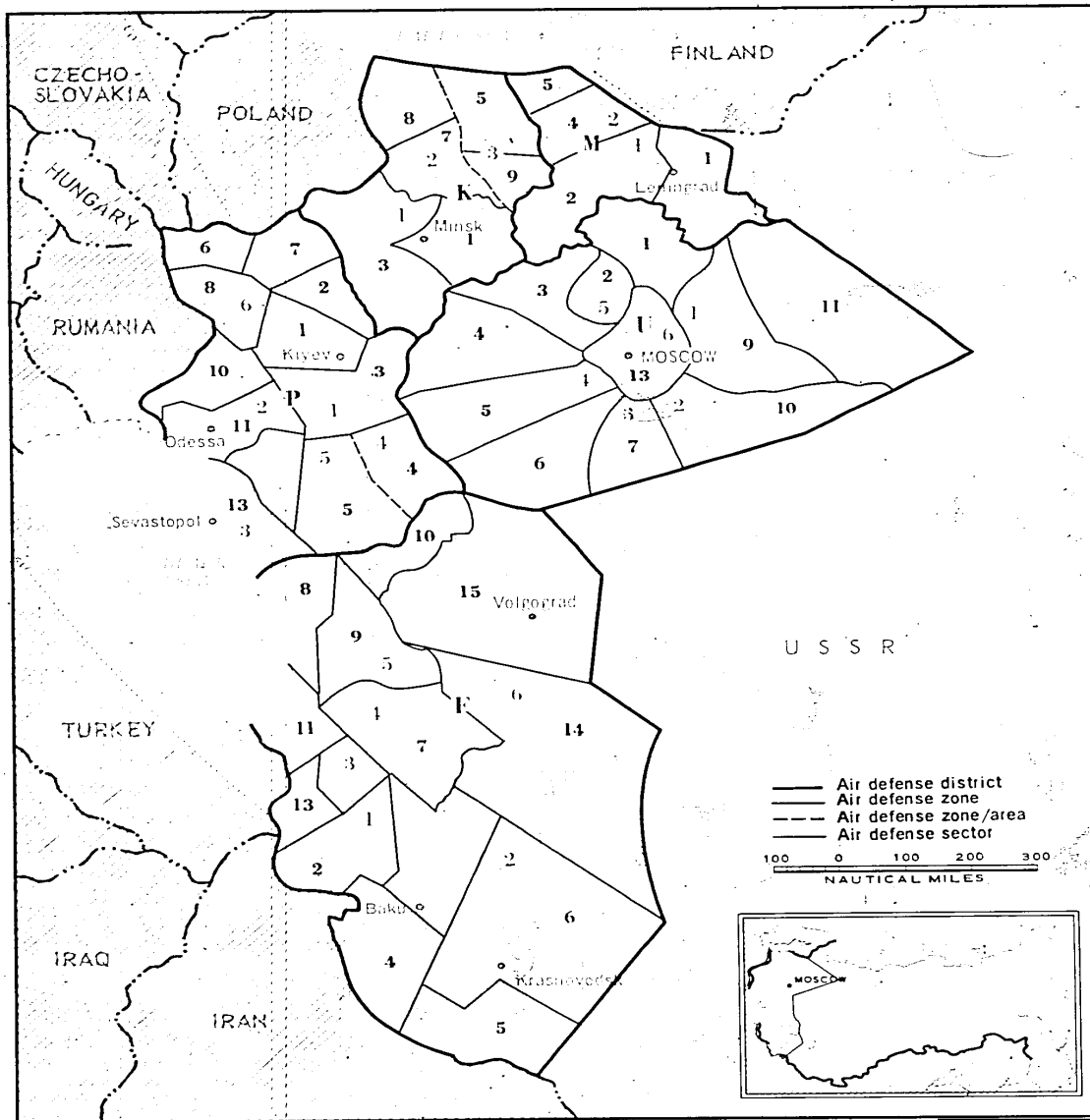


FIGURE 6. WESTERN AIR DEFENSE AREAS, USSR.

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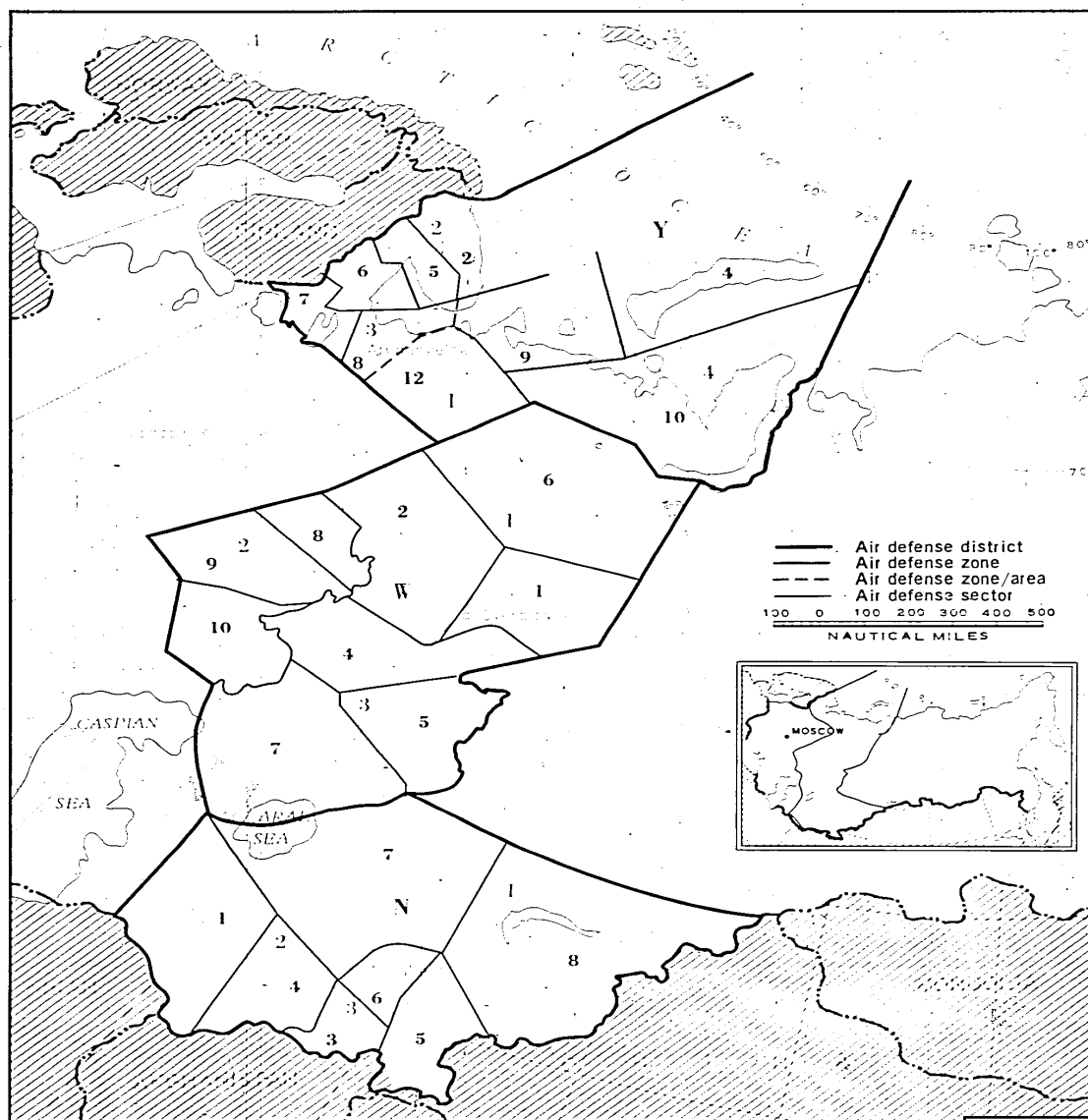


FIGURE 7. SVERDLOVSK, TASHKENT, AND NORTHERN AIR DEFENSE AREAS, USSR.

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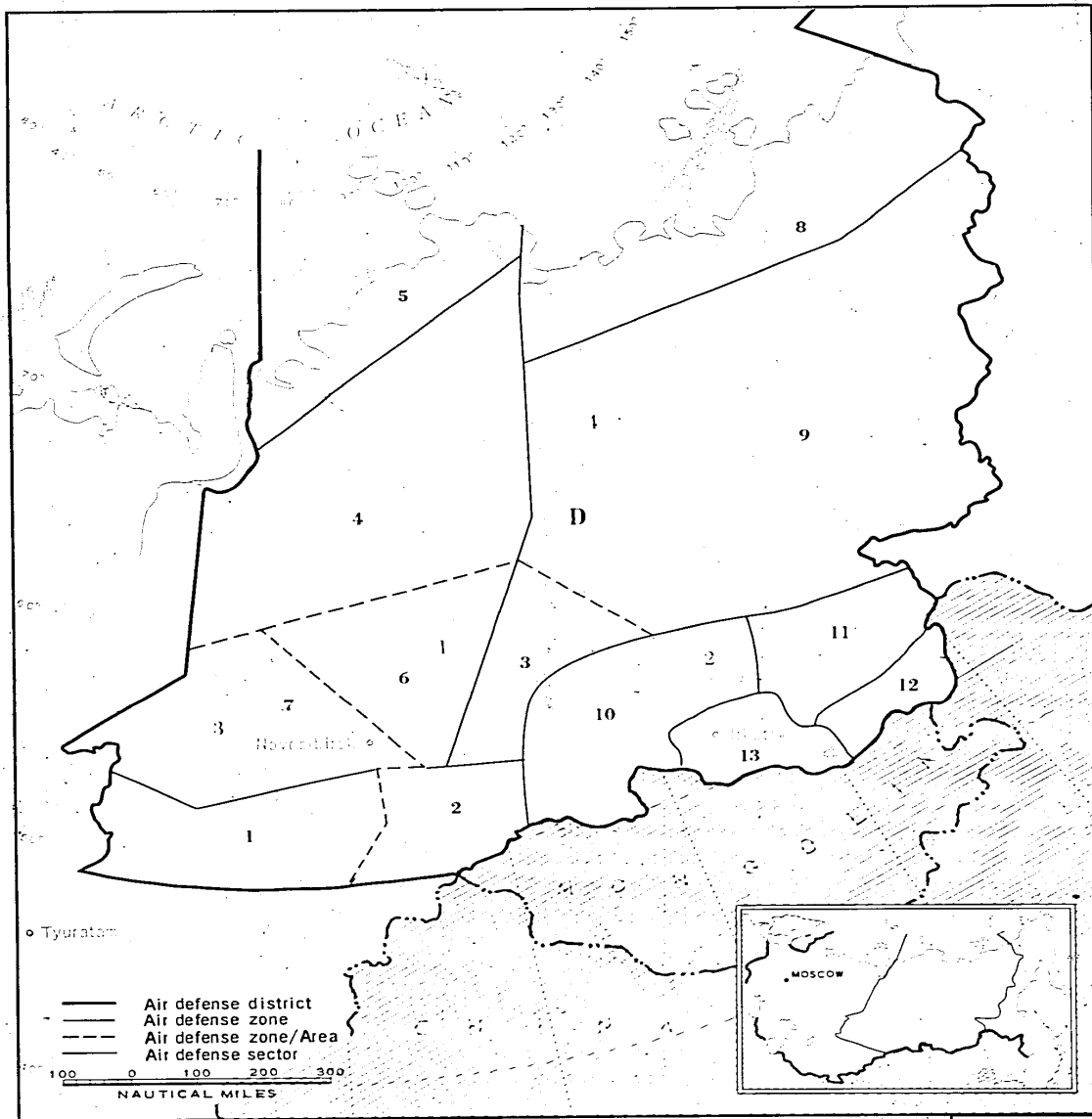


FIGURE 8. TRANS-SIBERIAN AIR DEFENSE AREA, USSR.

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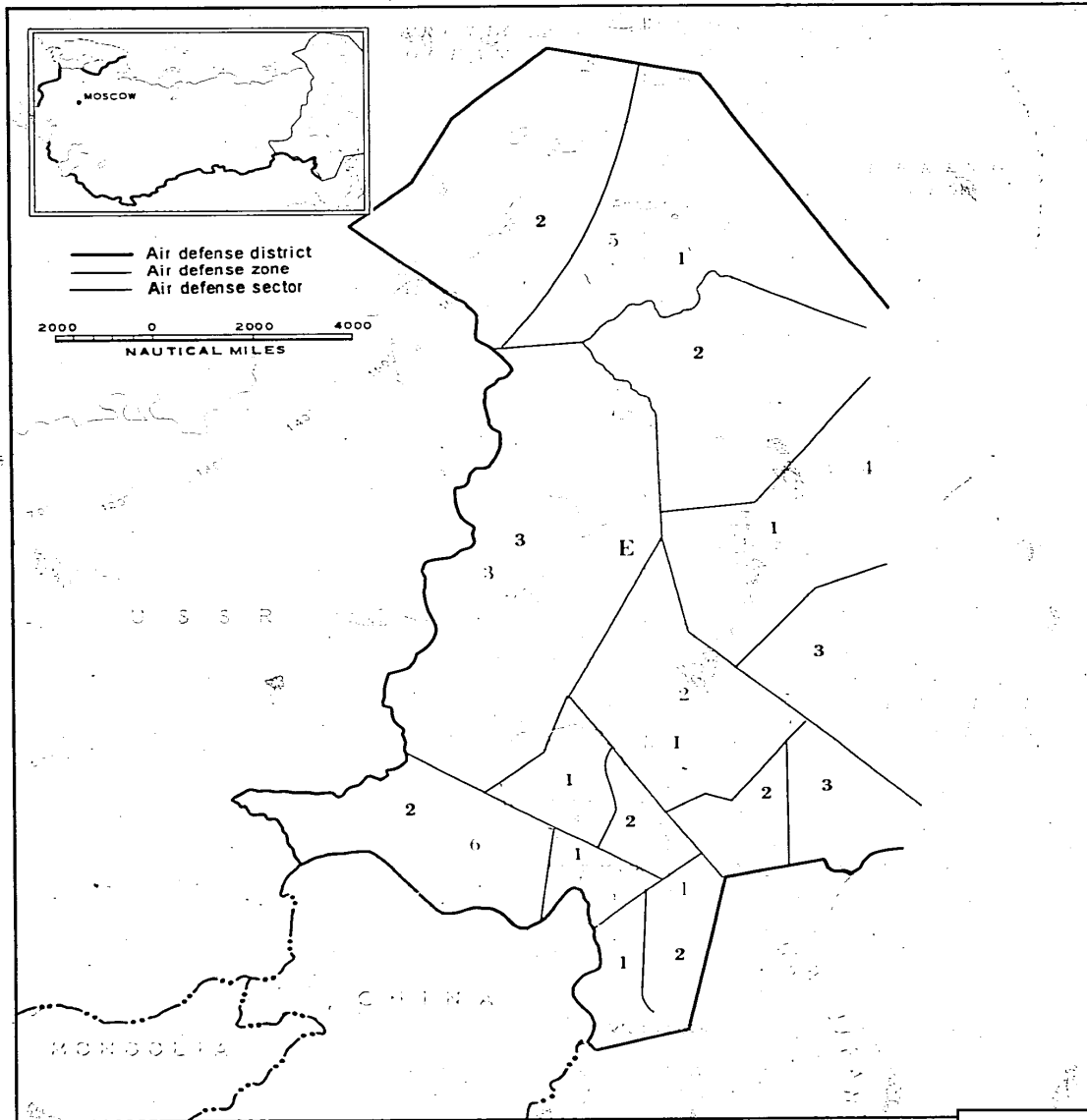


FIGURE 9. FAR EASTERN AIR DEFENSE AREA, USSR.

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REFERENCES

MAPS OR CHARTS

CIA. Map 34721, 5-64 (SECRET)

REQUIREMENTS

USIB - 64

CIA. C-RR4-81,581

C-RR4-81,734

C-RR4-81,735

C-RR4-81,635

NPIC PROJECT

N-665/64 (partial answer)

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